

Practitioner's Docket No. 1392/10/19 PCT/US  
U.S. Serial No. 10/533,232

**CHAPTER II**

**IN THE UNITED STATES ELECTED OFFICE (EO/US)**

PCT/US03/41200	23 December 2003 (23.12.03)	26 December 2002 (26.12.02)
International Application No.	International Filing Date	Priority Date Claimed

**CELL PROLIFERATION-RELATED POLYPEPTIDES AND USES THEREFOR**

Title of Invention

Syngenta Participations AG; Cooper, Bret

Applicant(s)

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
ATTENTION: EO/US

**COMPLETION OF FILING REQUIREMENTS  
FOR INTERNATIONAL APPLICATION ENTERING U.S. NATIONAL STAGE  
IN U.S. ELECTED OFFICE (EO/US) UNDER 35 U.S.C. § 371**

This replies to the Notice of Missing Requirements under 35 U.S.C. § 371 and 37 C.F.R. § 1.495 (FORM PCT/DO/EO/905).

A copy of FORM PCT/DO/EO/905 accompanies this response.

**EXPRESS MAILING UNDER 37 C.F.R. § 1.10\***

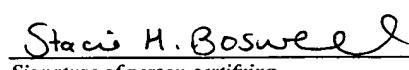
*(Express Mail label number is mandatory.)*

*(Express Mail certification is optional)*

I hereby certify that this paper, along with any document referred to, is being deposited with the United States Postal Service on this date November 22, 2005 in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 as "Express Mail Post Office to Addressee" Mailing Label No. EV579134359US.

Stacie H. Boswell

Date: November 22, 2005

  
Signature of person certifying

**WARNING:** Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

**\*WARNING:** Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

## DECLARATION OR OATH

I. The declaration or oath that was filed was determined to be defective. A new original oath or declaration is attached.

## SEQUENCE LISTING

II. The computer readable form of the Sequence Listing that was filed with the subject application has been found not to comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821-1.825. A substitute computer readable form, a Substitute Sequence Listing on CD-R (in triplicate), a Statement Regarding Identity of Copies of Sequence Listing, and a Preliminary Amendment directing entry of the Substitute Sequence Listing into the application are enclosed herewith.

## III. FEES

1. Surcharge fees

Surcharge for filing the oath or declaration  
later than thirty months from the priority  
date pursuant to § 1.495(c):

\$130.00

**Total Fees**

**\$130.00**

## EXTENSION OF TIME

IV. The proceedings herein are for a patent application. Accordingly, the provisions of 37 C.F.R. § 1.136(a) apply.

Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.

## TOTAL FEE DUE

V. The total fee due is:

Completion fee(s)

\$130.00

**TOTAL FEE DUE \$130.00**

## PAYMENT OF FEES

### VI.

Authorization is hereby made to charge the amount of \$130.00 to Deposit Account No. 50-0426. Charge any additional fees required by this paper or credit any overpayment in the manner authorized above.

A duplicate of this request is attached.

Date: 11/22/2005



Signature of Practitioner

Arles A. Taylor, Jr.

Jenkins, Wilson & Taylor, P.A.

Suite 1400 University Tower

3100 Tower Boulevard

Durham, NC 27707

UNITED STATES OF AMERICA

11/29/2005 ATRAN1 00000110 500426 10533232

01 FC:1617 130.00 DA



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

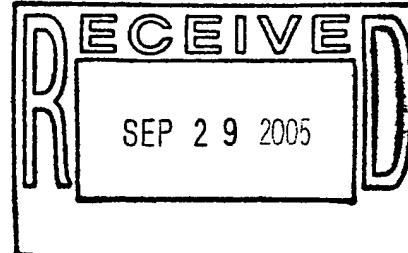
U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.	
10/533,232	Bret Cooper	1392/10/19 PCT/US	
		INTERNATIONAL APPLICATION NO.	
		PCT/US03/41200	
		I.A. FILING DATE	PRIORITY DATE
		12/23/2003	12/26/2002
CONFIRMATION NO. 2354			
371 FORMALITIES LETTER			
 *OC000000017076491*			

Date Mailed: 09/23/2005

**NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 04/29/2005
- Biochemical Sequence Diskette filed on 04/29/2005
- Oath or Declaration filed on 04/29/2005
- U.S. Basic National Fees filed on 04/29/2005
- Priority Documents filed on 04/29/2005
- Specification filed on 04/29/2005
- Claims filed on 04/29/2005
- Abstracts filed on 04/29/2005
- Drawings filed on 04/29/2005



The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
  - is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

**SUMMARY OF FEES DUE:**

DOCKET DATES: 2123.3123.123  
 ASSIGNED ATTY: AAT/ICPP  
 FILE NO. 1392/10/19 PCT/US  
 DOCKETED BY: 4M0  
 DATE: 10.19.05

Total additional fees required for this application is **\$130** for a Large Entity:

- **\$130 Surcharge.**

- This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c) Applicant must provide an initial paper or compact disc copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000).
- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

**For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:**

- **For Rules Interpretation, call (571) 272-0951**
- **For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.**
- **Send e-mail correspondence for Patentin Software Program Help @ [ebc@uspto.gov](mailto:ebc@uspto.gov)**

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

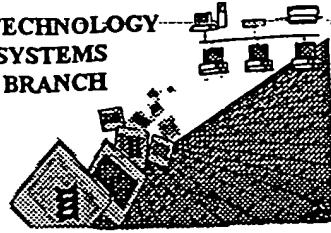
*A copy of this notice **MUST** be returned with the response.*

BARBARA A CAMPBELL

Telephone: (703) 308-9140 EXT 217

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/533,232	PCT/US03/41200	1392/10/19 PCT/US



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/533232

Source:

PG

Date Processed by STIC:

5/12/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.usptc.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

**Raw Sequence Listing Error Summary**

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER</u>
		10/533,232
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input checked="" type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was received in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input checked="" type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input checked="" type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input checked="" type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input checked="" type="checkbox"/> Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>.<223> section that some may be missing	
6 <input checked="" type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>.<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>.<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>.<223> sections for Artificial or Unknown sequences.	
7 <input checked="" type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading) (ii) SEQUENCE DESCRIPTION SEQ ID NO X (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
	Please also adjust the "(ii) NUMBER OF SEQUENCES" response to include the skipped sequence.	
8 <input checked="" type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: <210> sequence id number <400> sequence id number 000	
9 <input checked="" type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing Per 1.823 of Sequence Rules, use of <220>.<223> is MANDATORY if n's or Xaa's are present In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents	
10 <input checked="" type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are Unknown, Artificial Sequence or scientific name (Genus/species). <220>.<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input checked="" type="checkbox"/> Use of <220>	Sequence(s) missing the <220> "feature" and associated numeric identifiers and responses Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input checked="" type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input checked="" type="checkbox"/> Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



PCT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/533,232

DATE: 05/12/2005  
TIME: 08:24:04

Input Set : D:\1392-10-19 PCT.ST25.txt  
Output Set: N:\CRF4\05122005\J533232.raw

3 <110> APPLICANT: Cooper, Bret  
 5 <120> TITLE OF INVENTION: CELL PROLIFERATION-RELATED POLYPEPTIDES AND USES THEREFOR  
 7 <130> FILE REFERENCE: 1392-10-19-2  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/533,232 Does Not Comply  
 C--> 9 <141> CURRENT FILING DATE: 2005-04-29 Corrected Diskette Needed  
 9 <150> PRIOR APPLICATION NUMBER: US 60/436,565  
 10 <151> PRIOR FILING DATE: 2002-12-26  
 12 <160> NUMBER OF SEQ ID NOS: 349  
 14 <170> SOFTWARE: PatentIn version 3.2  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 885  
 18 <212> TYPE: DNA  
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 22 <220> FEATURE:  
 23 <221> NAME/KEY: CDS  
 24 <222> LOCATION: (1)..(885)  
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 28 Met Ala Pro Pro Cys Gly Asp Ala Ala Ala Ala Ser Ala Ala Pro  
 29 1 5 10 15  
 31 ggc ctg gcc aac ctg ctc att cgc gaa ggc gcc ggc ctc cct tcg cgt 96  
 32 Gly Leu Ala Asn Leu Leu Ile Arg Glu Gly Ala Gly Leu Pro Ser Arg  
 33 20 25 30  
 35 ccc gaa cgg tac ccc ttc cgg ccc tgt act tct gat tcc ttt gct 144  
 36 Pro Glu Arg Tyr Pro Pro Phe Arg Pro Cys Thr Ser Asp Ser Phe Ala  
 37 35 40 45  
 39 cca atc tct agg gaa ggg gac gat att ccc ccc caa aaa aaa tcg gtt 192  
 40 Pro Ile Ser Arg Glu Gly Asp Asp Ile Pro Pro Gln Lys Lys Ser Val  
 41 50 55 60  
 43 tct tta cgc agc ggc ggc ggc aat gcg gca gag agg gag gag ggc 240  
 44 Ser Leu Arg Ser Gly Gly Gly Asn Ala Ala Glu Arg Glu Glu Gly  
 45 65 70 75 80  
 47 ggt gcg aac agg aac ggg aag aag gag aag acc ggg gcg cag agg atc 288  
 48 Gly Ala Asn Arg Asn Gly Lys Lys Glu Lys Thr Gly Ala Gln Arg Ile  
 49 85 90 95  
 51 acc ggg tgg ggg ctc cgt gag ttc agc aag ata gtt tct aag aaa gtt 336  
 52 Thr Gly Trp Gly Leu Arg Glu Phe Ser Lys Ile Val Ser Lys Lys Val  
 53 100 105 110  
 55 gag gcc aaa gga aga acc aca tat aat gag gtt gcc gat gag att ttt 384  
 56 Glu Ala Lys Gly Arg Thr Thr Tyr Asn Glu Val Ala Asp Glu Ile Phe  
 57 115 120 125  
 59 gcg gag ctg aag tcc att acg cag aac ggt ctg gag ttt gat gag aag 432  
 60 Ala Glu Leu Lys Ser Ile Thr Gln Asn Gly Leu Glu Phe Asp Glu Lys

Q.W

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/533,232

DATE: 05/12/2005  
TIME: 08:24:04

Input Set : D:\1392-10-19 PCT.ST25.txt  
Output Set: N:\CRF4\05122005\J533232.raw

61	130	135	140	
63	aat att agg cgg agg gta tat gat gct ttc aat gtg ctc att gca att			480
64	Asn Ile Arg Arg Val Tyr Asp Ala Phe Asn Val Leu Ile Ala Ile			
65	145	150	155	160
67	cgt gtt att gca aaa gat aaa aag gag ata aag tgg atg ggc ctt act			528
68	Arg Val Ile Ala Lys Asp Lys Glu Ile Lys Trp Met Gly Leu Thr			
69	165	170	175	
71	aat tat aga tac gaa aag ata cag aag ttg gag gaa gtt cac aaa gaa			576
72	Asn Tyr Arg Tyr Glu Lys Ile Gln Lys Leu Glu Val His Lys Glu			
73	180	185	190	
75	ctc atc acc agg atc aag aat aag aag ctt ctc cag gaa att gaa			624
76	Leu Ile Thr Arg Ile Lys Asn Lys Lys Leu Leu Gln Glu Ile Glu			
77	195	200	205	
79	aag cag ttt gat gac ctt cag aat att aca tta cgc aac cag gct agt			672
80	Lys Gln Phe Asp Asp Leu Gln Asn Ile Thr Leu Arg Asn Gln Ala Ser			
81	210	215	220	
83	cag agg cca gca gaa agt gtt aat ggc atc ctc ctt ccg ttc tta ttg			720
84	Gln Arg Pro Ala Glu Ser Val Asn Gly Ile Leu Leu Pro Phe Leu Leu			
85	225	230	235	240
87	atc aag aca tcc cga aaa gca agg gtg gaa att gag att tcg gaa gat			768
88	Ile Lys Thr Ser Arg Lys Ala Arg Val Glu Ile Glu Ile Ser Glu Asp			
89	245	250	255	
91	tcg aag ttt gca cgg ttc gac ttc aac ggt gca cca ttc acc atg cat			816
92	Ser Lys Phe Ala Arg Phe Asp Phe Asn Gly Ala Pro Phe Thr Met His			
93	260	265	270	
95	gat gat gta tca atc ctt gaa gcc atc agg cgt aac aaa gga aga gct			864
96	Asp Asp Val Ser Ile Leu Glu Ala Ile Arg Arg Asn Lys Gly Arg Ala			
97	275	280	285	
99	ggc ctc tcc att cac cct taa			885
100	Gly Leu Ser Ile His Pro			
101	290			
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106	<212> TYPE: PRT			
107	<213> ORGANISM: Oryza sativa			
109	<400> SEQUENCE: 2			
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115	Gly Leu Ala Asn Leu Leu Ile Arg Glu Gly Ala Gly Leu Pro Ser Arg			
116	20	25	30	
119	Pro Glu Arg Tyr Pro Pro Phe Arg Pro Cys Thr Ser Asp Ser Phe Ala			
120	35	40	45	
123	Pro Ile Ser Arg Glu Gly Asp Asp Ile Pro Pro Gln Lys Lys Ser Val			
124	50	55	60	
127	Ser Leu Arg Ser Gly Gly Gly Asn Ala Ala Glu Arg Glu Glu Gly			
128	65	70	75	80
131	Gly Ala Asn Arg Asn Gly Lys Lys Glu Lys Thr Gly Ala Gln Arg Ile			
132	85	90	95	
135	Thr Gly Trp Gly Leu Arg Glu Phe Ser Lys Ile Val Ser Lys Lys Val			

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/533,232

DATE: 05/12/2005  
TIME: 08:24:04

Input Set : D:\1392-10-19 PCT.ST25.txt  
Output Set: N:\CRF4\05122005\J533232.raw

136	100	105	110	
139	Glu Ala Lys Gly Arg Thr Thr Tyr Asn Glu Val Ala Asp Glu Ile Phe			
140	115	120	125	
143	Ala Glu Leu Lys Ser Ile Thr Gln Asn Gly Leu Glu Phe Asp Glu Lys			
144	130	135	140	
147	Asn Ile Arg Arg Arg Val Tyr Asp Ala Phe Asn Val Leu Ile Ala Ile			
148	145	150	155	160
151	Arg Val Ile Ala Lys Asp Lys Lys Glu Ile Lys Trp Met Gly Leu Thr			
152	165	170	175	
155	Asn Tyr Arg Tyr Glu Lys Ile Gln Lys Leu Glu Glu Val His Lys Glu			
156	180	185	190	
159	Leu Ile Thr Arg Ile Lys Asn Lys Lys Leu Leu Gln Glu Ile Glu			
160	195	200	205	
163	Lys Gln Phe Asp Asp Leu Gln Asn Ile Thr Leu Arg Asn Gln Ala Ser			
164	210	215	220	
167	Gln Arg Pro Ala Glu Ser Val Asn Gly Ile Leu Pro Phe Leu Leu			
168	225	230	235	240
171	Ile Lys Thr Ser Arg Lys Ala Arg Val Glu Ile Glu Ile Ser Glu Asp			
172	245	250	255	
175	Ser Lys Phe Ala Arg Phe Asp Phe Asn Gly Ala Pro Phe Thr Met His			
176	260	265	270	
179	Asp Asp Val Ser Ile Leu Glu Ala Ile Arg Arg Asn Lys Gly Arg Ala			
180	275	280	285	
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184	290			
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193	<220> FEATURE:			
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197	<400> SEQUENCE: 3			
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199	Met Val Ser Gly Ala Ala His Ser Ala Ser Thr Ser Gly Gly Gly			
200	1 5 10 15			
202	ggg agc gag ggc tcc ccc acc ggc cgc gcc gcg ccg ggc atg cag ggc		96	
203	Gly Ser Glu Gly Ser Pro Thr Gly Arg Ala Ala Pro Gly Met Gln Gly			
204	20 25 30			
206	ggc ggc agc gcc acc ccc gcc gcc tcg gcc tcc gcg tcc acg ccg		144	
207	Gly Gly Ser Ala Ala Thr Pro Ala Ala Ser Ala Ser Thr Pro			
208	35 40 45			
210	gcc agc gag acc acc gtc gcc cgc ctc gac ggc ctc gac atc cag		192	
211	Ala Ser Glu Thr Thr Val Ala Arg Arg Leu Asp Gly Leu Asp Ile Gln			
212	50 55 60			
214	ggc gac gac gcg ccc tcg tcg cag ccc gcc acg agc aag aag aaa aaa		240	
215	Gly Asp Asp Ala Pro Ser Ser Gln Pro Ala Thr Ser Lys Lys Lys			
216	65 70 75 80			
218	agg ggg cct gga aca cgt gca acg ggc cct gac aag ggt ggc cgt gga		288	

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/533,232

DATE: 05/12/2005  
TIME: 08:24:04

Input Set : D:\1392-10-19 PCT.ST25.txt  
Output Set: N:\CRF4\05122005\J533232.raw

219	Arg	Gly	Pro	Gly	Thr	Arg	Ala	Thr	Gly	Pro	Asp	Lys	Gly	Gly	Arg	Gly	
220															95		
	85																
222	ttg	cgc	caa	ttt	agt	atg	aaa	gtt	tgt	gag	aaa	gtt	gaa	agc	aaa	ggg	336
223	Leu	Arg	Gln	Phe	Ser	Met	Lys	Val	Cys	Glu	Lys	Val	Glu	Ser	Lys	Gly	
224															110		
	100								105								
226	aga	aca	acc	tac	aac	gag	gtg	gca	gat	gag	ctt	gta	gct	gag	ttt	gca	384
227	Arg	Thr	Thr	Tyr	Asn	Glu	Val	Ala	Asp	Glu	Leu	Val	Ala	Glu	Phe	Ala	
228											115	120		125			
230	gac	ccc	aac	aat	aat	ttt	gca	tca	cct	gat	cct	gac	aac	cct	aac	aca	432
231	Asp	Pro	Asn	Asn	Asn	Phe	Ala	Ser	Pro	Asp	Pro	Asp	Asn	Pro	Asn	Thr	
232											130	135		140			
234	cca	caa	ttt	gat	gag	aaa	aat	ata	cga	cga	agg	gtt	tat	gat	gca	ttg	480
235	Pro	Gln	Phe	Asp	Glu	Lys	Asn	Ile	Arg	Arg	Arg	Val	Tyr	Asp	Ala	Leu	
236	145								150		155				160		
238	aat	gtc	ctg	atg	gct	atg	gat	att	ata	tct	aag	gat	aaa	aag	gaa	att	528
239	Asn	Val	Leu	Met	Ala	Met	Asp	Ile	Ile	Ser	Lys	Asp	Lys	Lys	Glu	Ile	
240									165		170				175		
242	cag	tgg	aag	ggc	ttg	cct	cg	aca	agt	atg	agc	gat	gtt	gaa	gaa	ttg	576
243	Gln	Trp	Lys	Gly	Leu	Pro	Arg	Thr	Ser	Met	Ser	Asp	Val	Glu	Glu	Leu	
244									180		185				190		
246	aag	aca	gag	atc	atc	gga	ctg	aaa	ggt	agg	atc	gac	aag	aaa	aat	gca	624
247	Lys	Thr	Glu	Ile	Ile	Gly	Leu	Lys	Gly	Arg	Ile	Asp	Lys	Lys	Asn	Ala	
248									195		200				205		
250	tat	ttg	cag	gag	tta	gaa	gat	caa	ttt	gta	ggt	ctt	caa	aac	ttg	gca	672
251	Tyr	Leu	Gln	Glu	Leu	Glu	Asp	Gln	Phe	Val	Gly	Leu	Gln	Asn	Leu	Ala	
252									210		215				220		
254	cag	cga	aac	gag	cag	ctt	tat	ggt	tca	gga	aat	gct	cct	tca	gga	gga	720
255	Gln	Arg	Asn	Glu	Gln	Leu	Tyr	Gly	Ser	Gly	Asn	Ala	Pro	Ser	Gly	Gly	
256	225								230		235				240		
258	gtg	gca	ttg	cca	ttt	ata	ttg	gtg	cag	aca	cgt	cct	cat	gct	aca	gtt	768
259	Val	Ala	Leu	Pro	Phe	Ile	Leu	Val	Gln	Thr	Arg	Pro	His	Ala	Thr	Val	
260									245		250				255		
262	gaa	gtg	gag	ata	tca	gaa	gat	atg	cag	ctg	gtg	cat	ttt	gat	ttc	aat	816
263	Glu	Val	Glu	Ile	Ser	Glu	Asp	Met	Gln	Leu	Val	His	Phe	Asp	Phe	Asn	
264									260		265				270		
266	agc	act	cca	ttt	gaa	ctg	cat	gac	gat	tcc	ttt	gta	ctg	aaa	gca	ttg	864
267	Ser	Thr	Pro	Phe	Glu	Leu	His	Asp	Asp	Ser	Phe	Val	Leu	Lys	Ala	Leu	
268									275		280				285		
270	ggg	tcc	tct	ggc	aaa	gaa	cca	gat	gat	acg	caa	gcc	tgg	gtt	gga	aat	912
271	Gly	Phe	Ser	Gly	Lys	Glu	Pro	Asp	Asp	Thr	Gln	Ala	Trp	Val	Gly	Asn	
272									290		295				300		
274	gga	ggt	gag	tgc	tca	acc	aca	cct	atc	tat	cat	caa	tca	ccc	caa	gtt	960
275	Gly	Gly	Glu	Cys	Ser	Thr	Thr	Pro	Ile	Tyr	His	Gln	Ser	Pro	Gln	Val	
276	305								310		315				320		
278	gcg	agg	cca	aac	gga	gtt	aga	cta	cca	aca	tcg	ccc	cct	att	ccc	ggt	1008
279	Ala	Arg	Pro	Asn	Gly	Val	Arg	Leu	Pro	Thr	Ser	Pro	Pro	Ile	Pro	Gly	
280									325		330				335		
282	ata	ctt	aaa	ggg	cgt	gtc	aag	cat	gaa	cat	tag						1041
283	Ile	Leu	Lys	Gly	Arg	Val	Lys	His	Glu	His							

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/533,232

DATE: 05/12/2005  
TIME: 08:24:04

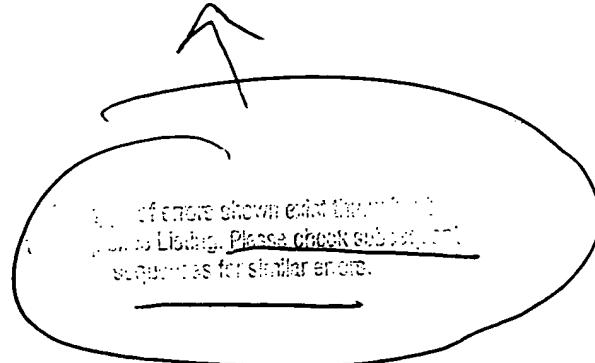
Input Set : D:\1392-10-19 PCT.ST25.txt  
Output Set: N:\CRF4\05122005\J533232.raw

284	340	345
287 <210> SEQ ID NO: 4		
288 <211> LENGTH: 346		
289 <212> TYPE: PRT		
290 <213> ORGANISM: Oryza sativa		
292 <400> SEQUENCE: 4		
294 Met Val Ser Gly Ala Ala His Ser Ala Ser Thr Ser Gly Gly Gly		
295 1 5 10 15		
298 Gly Ser Glu Gly Ser Pro Thr Gly Arg Ala Ala Pro Gly Met Gln Gly		
299 20 25 30		
302 Gly Gly Ser Ala Ala Thr Pro Ala Ala Ser Ala Ser Ala Ser Thr Pro		
303 35 40 45		
306 Ala Ser Glu Thr Thr Val Ala Arg Arg Leu Asp Gly Leu Asp Ile Gln		
307 50 55 60		
310 Gly Asp Asp Ala Pro Ser Ser Gln Pro Ala Thr Ser Lys Lys Lys Lys		
311 65 70 75 80		
314 Arg Gly Pro Gly Thr Arg Ala Thr Gly Pro Asp Lys Gly Arg Gly		
315 85 90 95		
318 Leu Arg Gln Phe Ser Met Lys Val Cys Glu Lys Val Glu Ser Lys Gly		
319 100 105 110		
322 Arg Thr Thr Tyr Asn Glu Val Ala Asp Glu Leu Val Ala Glu Phe Ala		
323 115 120 125		
326 Asp Pro Asn Asn Asn Phe Ala Ser Pro Asp Pro Asp Asn Pro Asn Thr		
327 130 135 140		
330 Pro Gln Phe Asp Glu Lys Asn Ile Arg Arg Arg Val Tyr Asp Ala Leu		
331 145 150 155 160		
334 Asn Val Leu Met Ala Met Asp Ile Ile Ser Lys Asp Lys Lys Glu Ile		
335 165 170 175		
338 Gln Trp Lys Gly Leu Pro Arg Thr Ser Met Ser Asp Val Glu Glu Leu		
339 180 185 190		
342 Lys Thr Glu Ile Ile Gly Leu Lys Gly Arg Ile Asp Lys Lys Asn Ala		
343 195 200 205		
346 Tyr Leu Gln Glu Leu Glu Asp Gln Phe Val Gly Leu Gln Asn Leu Ala		
347 210 215 220		
350 Gln Arg Asn Glu Gln Leu Tyr Gly Ser Gly Asn Ala Pro Ser Gly Gly		
351 225 230 235 240		
354 Val Ala Leu Pro Phe Ile Leu Val Gln Thr Arg Pro His Ala Thr Val		
355 245 250 255		
358 Glu Val Glu Ile Ser Glu Asp Met Gln Leu Val His Phe Asp Phe Asn		
359 260 265 270		
362 Ser Thr Pro Phe Glu Leu His Asp Asp Ser Phe Val Leu Lys Ala Leu		
363 275 280 285		
366 Gly Phe Ser Gly Lys Glu Pro Asp Asp Thr Gln Ala Trp Val Gly Asn		
367 290 295 300		
370 Gly Gly Glu Cys Ser Thr Thr Pro Ile Tyr His Gln Ser Pro Gln Val		
371 305 310 315 320		
374 Ala Arg Pro Asn Gly Val Arg Leu Pro Thr Ser Pro Pro Ile Pro Gly		
375 325 330 335		
378 Ile Leu Lys Gly Arg Val Lys His Glu His		

<210> 59  
<211> 726  
<212> DNA  
<213> Oryza sativa  
<220>  
<223>  
<220>  
<221> CDS  
<222> (1)...(726)

INVALID RESPONSE  
MANDATORY <220><223>  
PLEASE EXPLAIN LOCATION OF  
"XAA"  
SEE ITEM # 9 ERROR SUMMARY SHEET.

<400> 59	48
atg ggg agg ggg aag ata gtg ata agg agg ata gac aac tcg acg agc	
Met Gly Arg Gly Lys Ile Val Ile Arg Arg Ile Asp Asn Ser Thr Ser	
1 5 10 15	
agg cag gtg acg ttc tcg aag cgt cgg aac ggg ctt ctg aag aag gcg	96
Arg Gln Val Thr Phe Ser Lys Arg Asn Gly Leu Leu Lys Lys Ala	
20 25 30	
aag gag cta tcc atc ctc tgc gat gcg gag gtc ggc ctt gtc gtc ttc	144
Lys Glu Leu Ser Ile Leu Cys Asp Ala Glu Val Gly Leu Val Val Phe	
35 40 45	
tcc agc acc ggc ass ctc tat gag ttc tcc agc acc aac atg aaa act	192
Ser Ser Thr Gly Xaa Leu Tyr Glu Phe Ser Ser Thr Asn Met Lys Thr	
50 55 60	



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/533,232

DATE: 05/12/2005  
TIME: 08:24:05

Input Set : D:\1392-10-19 PCT.ST25.txt  
Output Set: N:\CRF4\05122005\J533232.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 702  
Seq#:5; Xaa Pos. 234  
Seq#:6; Xaa Pos. 234  
Seq#:59; Xaa Pos. 53  
Seq#:60; Xaa Pos. 53  
Seq#:79; Xaa Pos. 71  
Seq#:80; Xaa Pos. 71  
Seq#:111; Xaa Pos. 23,56,57,104,126  
Seq#:112; Xaa Pos. 23,56,57,104,126  
Seq#:121; Xaa Pos. 64  
Seq#:122; Xaa Pos. 64  
Seq#:137; Xaa Pos. 34  
Seq#:138; Xaa Pos. 34  
Seq#:151; Xaa Pos. 956,961,1086  
Seq#:152; Xaa Pos. 956,961,1086  
Seq#:161; Xaa Pos. 264  
Seq#:162; Xaa Pos. 264  
Seq#:293; Xaa Pos. 226  
Seq#:294; Xaa Pos. 226  
Seq#:303; Xaa Pos. 2,6  
Seq#:304; Xaa Pos. 2,6

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:347

VERIFICATION SUMMARY DATE: 05/12/2005  
PATENT APPLICATION: US/10/533,232 TIME: 08:24:05

Input Set : D:\1392-10-19 PCT.ST25.txt  
Output Set: N:\CRF4\05122005\J533232.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:672  
M:341 Repeated in SeqNo=5  
L:623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:224  
L:5577 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:59  
L:5577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:192  
L:5653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:48  
L:7834 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:79  
L:7834 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:240  
L:7990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:64  
L:11109 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:111  
L:11109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:96  
M:341 Repeated in SeqNo=111  
L:11285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:16  
M:341 Repeated in SeqNo=112  
L:12215 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:121  
L:12215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:192  
L:12307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:48  
L:13746 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:137  
L:13746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137 after pos.:144  
L:13994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:32  
L:16632 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:151  
L:16632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:2880  
M:341 Repeated in SeqNo=151  
L:16970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:944  
M:341 Repeated in SeqNo=152  
L:17914 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:161  
L:17914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:161 after pos.:816  
L:18026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162 after pos.:256  
L:31473 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:293  
L:31473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:293 after pos.:720  
L:31553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294 after pos.:224  
L:32309 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:303  
L:32309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:303 after pos.:48  
L:32606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304 after pos.:0